510(K) SUMMARY

MAY 2 2 2007

G20 Diagnostic Ultrasound system

This summary of safety and effectiveness is provided as part of this Premarket Notification in compliance with the Safe Medical Device Act of 1990 revisions to 21 CFR, Part 807.92, Content and Format of a 510(k) Summary.

1. Submitted By:

Siemens Medical Solutions USA, Inc., Ultrasound Division 1230 Shorebird Way Mountain View, CA 94043

Contact Person:

Martina Vogt Regulatory Affairs

Phone: (425) 557-1434 FAX: (425) 391-9198

Date Prepared:

May 2, 2007

2. Proprietary Name:

SONOLINE G20™ Diagnostic Ultrasound System

Common/ Usual Name:

Diagnostic Ultrasound System with Accessories

Classification Name:

21 CFR 892.1550

Ultrasonic Pulsed Doppler Imaging System
Ultrasonic Pulsed Echo Imaging System
Diagnostic Ultrasound Transducer

FR # 892.1550
FR # 892.1560
Product Code 90-IYN
FR # 892.1570
Product Code 90-IYN
Product Code 90-IYN
Product Code 90-IYN

3. Predicate Device:

K042833, 10/27/2004, SONOLINE G20 Diagnostic Ultrasound System K040502, 03/09/2004, SONOLINE G20 Diagnostic Ultrasound System K020353, 02/13/2002, SONOLINE G50 & G60 S Diagnostic Ultrasound Systems K946179, 10/03/1995, marketed as SONOLINE Adara Diagnostic Ultrasound System

4. Device Description:

The G20 is a general purpose, mobile, software-controlled, diagnostic ultrasound system with an on-screen display for thermal and mechanical indices related to potential bioeffect mechanisms. Its function is to acquire primary or secondary harmonic ultrasound echo data and display it in: B-Mode, M-Mode, a combination of modes, 3D imaging or Harmonic Imaging on a CRT display.

The G20, has been designed to meet the following product safety standards:

- UL 60601-1, Safety Requirements for Medical Equipment
- CSA C22.2 No. 601-1, Safety Requirements for Medical Equipment
- AIUM/NEMA UD-3, Standard for Real Time Display of Thermal and Mechanical Acoustic Output Indices on Diagnostic Ultrasound Equipment
- AIUM/NEMA UD-2, Acoustic Output Measurement Standard for Diagnostic Ultrasound
- 93/42/EEC Medical Devices Directive

Page 3

- Safety and EMC Requirements for Medical Equipment
 - EN 60601-1
 - EN 60601-1-1
 - EN 60601-1-2
 - EN 60601-2-37
- IEC 61157 Declaration of Acoustic Power
- ISO 10993 Biocompatibility

5. Intended Uses:

The G20 ultrasound imaging system is intended for the following applications: General Radiology, Abdominal, Fetal, Small Parts, Transcranial, OB/GYN, Cardiac, Pelvic, Neonatal/Adult Cephalic, Pediatric, Urology, Vascular, Musculoskeletal, Superficial Musculoskeletal, and Peripheral Vascular applications.

The system also provides for the measurement of anatomical structures and for analysis packages that provide information that is used for clinical diagnosis purposes.

6. Technological Comparison to Predicate Device:

The G20 is substantially equivalent to the SONOLINE Adara, cleared via K946179, the SONOLINE G50/G60 S, cleared via K020353, the SONOLINE G20, cleared via K040502 and the SONOLINE G20, cleared via K042833. All systems transmit ultrasonic energy into patients, then perform post processing of received echoes to generate on-screen display of anatomic structures and fluid flow within the body. All systems allow for specialized measurements of structures and flow, and calculations.

End of 510(k) Summary





Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Siemens Medical Solutions USA, Inc. Ultrasound Division % Mr. Mark Job
Responsible Third Party Official
Regulatory Technology Services LLC
1394 25th Street NW
BUFFALO MN 55313

MAY 2 2 2007

Re: K071314

Trade Name: SONOLINE G20TM Diagnostic Ultrasound Systems

Regulation Number: 21 CFR 892.1550

Regulation Name: Ultrasonic pulsed doppler imaging system

Regulation Number: 21 CFR 892.1560

Regulation Name: Ultrasonic pulsed echo imaging system

Regulation Number: 21 CFR 892.1570

Regulation Name: Diagnostic ultrasonic transducer

Regulatory Class: II

Product Code: IYN, IYO, and ITX

Dated: May 9, 2007 Received: May 10, 2007

Dear Mr. Job:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

This determination of substantial equivalence applies to the following transducers intended for use with the SONOLINE G20TM Diagnostic Ultrasound Systems, as described in your premarket notification:

Transducer Model Number

C5-2 Convex Array

L10-5 Linear Array

EV9-4 Convex Array

7.5L75S Linear Array

EC9-4 Convex Array

C4-2 Convex Array

C8-5 Convex Array

BE9-4 Biplane Endocavity

C6-F3 Convex Array Mechanically Driven 3D

EV8F5 Mechanical Sector Endocavity 3D

3.5C40S Convex Array

5.0C40S Convex Array

Endo PII Mechanical Sector Biplane endo-cavity

Endo VII Mechanical Sector Endovaginal

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This determination of substantial equivalence is granted on the condition that prior to shipping the first device, you submit a postclearance special report. This report should contain complete information, including acoustic output measurements based on production line devices, requested in Appendix G, (enclosed) of the Center's September 30, 1997 "Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers." If the special report is incomplete or contains unacceptable values (e.g., acoustic output greater than approved levels), then the 510(k) clearance may not apply to the production units which as a result may be considered adulterated or misbranded.

The special report should reference the manufacturer's 510(k) number. It should be clearly and prominently marked "ADD-TO-FILE" and should be submitted in duplicate to:

Food and Drug Administration Center for Devices and Radiological Health Document Mail Center (HFZ-401) 9200 Corporate Boulevard Rockville, Maryland 20850

This letter will allow you to begin marketing your device as described in your premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus permits your device to proceed to market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html

If you have any questions regarding the content of this letter, please contact Paul Hardy at (240) 276-3666.

Sincerely yours,

Nancy C. Brogdon

Director, Division of Reproductive, Abdominal and Radiological Devices

Mancy Brogdon

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure(s)

Prescription Use _

(Per 21 CFR 801.109)

Over-the-Counter-Use _

(Optional Format 1-2-96)

Page 1 of 1

510(k) Number (if known): Device Name: SONOLINE G20™ Diagnostic Ultrasound System Indications for Use: The G20™ ultrasound imaging systems are intended for the following applications: Fetal, Abdominal, Intraoperative, Pediatric, Small Parts, Transcranial, OB/GYN, Cardiac, Pelvic, Neonatal/Adult Cephalic, Vascular, Musculoskeletal, Superficial Musculoskeletal, and Peripheral Vascular applications. The system also provides for the measurement of anatomical structures and for analysis packages that provide information that is used for clinical diagnosis purposes. (PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED) Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices

OR

510(k) Number .

510(k). Number (if known):

Device Name:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

				· · · · ·		М	ode of Oper	ation		
Clinical Application	A	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic	L									
Fetal		Р	Р						ВМ	Note 2,3
Abdominal		Р	Р						ВМ	Note 2,3
Intraoperative (Note 6)		Р	Ρ						ВМ	Note 3
Intraoperative Neurological		Р	Р						ВМ	Note 3
Pediatric		Р	Р						ВМ	Note 2,3
Small Organ (Note 1)		Ρ	Р						ВМ	Note 2,3
Neonatal Cephalic		Р	Р						BM	Note 3
Adult Cephalic		Р	Р						BM	Note 2
Cardiac		P	Р						ВМ	Note 2
Transesophageal		Φ.	Р						ВМ	Note 2,3
Transrectal		Р	Р						BM	Note 2,3
Transvaginal		Ρ	Ρ						ВМ	Note 2,3
Transurethral										
Intravascular										
Peripheral vessel		Р	Р						ВМ	Note 2,3
Laparoscopic		Р	P						BM	Note 3
Musculo-skeletal Conventional		Р	Р						ВМ	Note 2,3
Musculo-skeletal Superficial		P	Р						ВМ	Note 2,3
Other (specify)										

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

No	te	1		or	examp	le:	breast,	testes,	thyroid,	penis,	prostate,	etc.
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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices // 07

510(k) Number _

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging Note 5 Power SieScape panoramic imaging

Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

510(k) Number (if known):

Device Name:

C5-2 Convex Array Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

						M	ode of Oper	ation		
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic										
Fetal		Р	Р						ВМ	Note 2,3
Abdominal		Р	Р						ВМ	Note 2,3
Intraoperative Abdominal										
Intraoperative Neurological										, <u> </u>
Pediatric		Р	Р						ВМ	Note 2,3
Small Organ										· · · · · · · · · · · · · · · · · · ·
Neonatal Cephalic					,					
Adult Cephalic										
Cardiac								·		· · _ · _ · _ · _ · _ · _ · _ · _
Trans-esophageal				-				······································		
Transrectal										
Transvaginal										
Transurethral										
Intravascular										
Peripheral vessel		ρ	Р						ВМ	Note 2,3
Laparoscopic										·
Musculo-skeletal Conventional										
Musculo-skeletal Superficial										
Other (Specify)										

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

Note I For example: preast, testes, thyroid, penis, prostate	: breast, testes, thyroid, penis, prostate, etc.	- 1	Note 1	١
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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices / 1/2/

510(k) Number _

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging

Note 5 Power SieScape panoramic imaging

Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

510(k) Number (if known):

Device Name:

L10-5 Linear Array Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

						Me	ode of Opera	ation		
Clinical Application	А	В	М	PWD	CMD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic										
Feta!										
Abdominal		P	Р						ВМ	Note 2,3
Intraoperative Abdominal										
Intraoperative Neurological										
Pediatric		Р	Р						BM	Note 2,3
Small Organ		Ρ	Р						ВМ	Note 2,3
Neonatal Cephalic		Р	Р					,	ВМ	Note 2,3
Adult Cephalic										
Cardiac										
Trans-esophageal										
Transrectal										
Transvaginal										
Transurethral										
Intravascular										
Peripheral vessel		Ρ	Ρ						ВМ	Note 2,3
Laparoscopic										
Musculo-skeletal Conventional		Р	P						вм	Note 2,3
Musculo-skeletal Superficial		Р	£						ВМ	Note 2,3
Other (specify)										

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

Note 1	For example:	breast, testes,	thyroid,	penis,	prostate, etc.
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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices /

510(k) Number.

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging Note 5 Power SieScape panoramic imaging Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

510(k) Number (if known):

Device Name:

EV9-4 Convex Array Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

						M	ode of Oper	ation		
Clinical Application	А	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic								-		0
Fetal		Р	Р						ВМ	Note 3
Abdominal										
Intraoperative Abdominal										
Intraoperative Neurological										
Pediatric						_				
Small Organ (Note 1)										
Neonatal Cephalic										
Adult Cephalic										
Cardiac										
Transesophageal										
Transrectal		Р	Ρ						ВМ	Note 3
Transvaginal		Р	Р				,		ВМ	Note 3
Transurethral			•							
Intravascular									i	
Peripheral vessel										
Laparoscopic										·
Musculo-skeletal Conventional										
Musculo-skeletal Superficial										
Other (specify)										

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

Note 1	For example: breast,	testes, thyro	oid penis,	prostate.	etc.
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(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices 510(k) Number _____

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging Note 5 Power SieScape panoramic imaging Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

510(k) Number (if known):

Device Name:

7.5L75S Linear Array Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

				· · · · · · · · · · · · · · · · · · ·		Me	ode of Opera	ation		
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic										· · · · · · · · · · · · · · · · · · ·
Fetal										
Abdominal		Р	Р							Note 3
Intraoperative Abdominal										
Intraoperative Neurological		_								
Pediatric		Р	Р					······		Note 3
Small Organ (Note 1)		Р	₽							Note 3
Neonatal Cephalic										
Adult Cephalic										
Cardiac										
Transesophageal										
Transrectal										
Transvaginal								·		
Transurethral										
Intravascular										
Peripheral vessel		Δ	Р							Note 3
Laparoscopic										
Musculo-skeletal Conventional		Ρ	Р							Note 3
Musculo-skeletal Superficial		Р	Р							Note 3
Other (specify)										·

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

Note 1	For example:	breast, testes.	thyroid	nenis	prostate	etc

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number.

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging

Note 5 Power SieScape panoramic imaging

Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

510(k) Number (if known):

Device Name:

EC9-4 Convex Array Endocavity Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

						Mo	ode of Opera	ation		
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic										
Fetal		Р	Р						ВМ	Note 3
Abdominal										
Intraoperative Abdominal										
Intraoperative Neurological										
Pediatric										
Small Organ (Note 1)								· · · · · ·		
Neonatal Cephalic										
Adult Cephalic						-				,
Cardiac										
Transesophageal					-					
Transrectal		Ρ	Р				-		8M	Note 3
Transvaginal		Ρ	Р		-				ВМ	Note 3
Transurethral										
Intravascular										··
Peripheral vessel										
Laparoscopic										
Musculo-skeletal Conventional										
Musculo-skeletal Superficial								•		
Other (specify)										

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

No	te	1	Fore	xample:	breast,	testes,	thyroid,	penis,	prostate,	etc.
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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number _

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging Note 5 Power SieScape panoramic imaging

Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

510(k) Number (if known):

Device Name:

C4-2 Convex Array Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

						Me	ode of Opera	ation		
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic										
Fetal		Р	Р						ВМ	
Abdominal		Р	Р						ВМ	Note 2,3
Intraoperative Abdominal										
Intraoperative Neurological	ï									
Pediatric		Р	Р						ВМ	
Small Organ (Note 1)										
Neonatal Cephalic										
Adult Cephalic		Р	Р					,	ВМ	Note 2,3
Cardiac		Р	Р						BM	Note 2,3
Transesophageal										
Transrectal										
Transvaginal										
Transurethral										
Intravascular										
Peripheral vessel										
Laparoscopic										
Musculo-skeletal Conventional										
Musculo-skeletal Superficial										
Other (specify)										

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

- Note 1 For example: breast, testes, thyroid, penis, prostate, etc.
- Note 2 Ensemble tissue harmonic imaging
- Note 3 3D imaging
- Note 4 B&W SieScape panoramic imaging
- Note 5 Power SieScape panoramic imaging Note 6 For example: abdominal, vascular
- Note 7 Contrast agent imaging

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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices // /

510(k) Number.

510(k) Number (if known):

Device Name:

C8-5 Convex Array Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

						М	ode of Oper	ation		
Clinical Application	А	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic										
Fetal										
Abdominal		Р	Р						BM	Note 3
Intraoperative Abdominal										
Intraoperative Neurological										
Pediatric		Р	Р						BM	Note 3
Small Organ (Note 1)		Р	Р					-	ВМ	Note 3
Neonatal Cephalic		P	Р						ВМ	Note 3
Adult Cephalic										
Cardiac		₽	Р	·					ВМ	Note 3
Transesophageal			l							
Transrectal										
Transvaginal						-				
Transurethral										
Intravascular										
Peripheral vessel										
Laparoscopic										
Musculo-skeletal Conventional		Ρ	Р						ВМ	Note 3
Musculo-skeletal Superficial		Р	Р						ВМ	Note 3
Other (specify)										

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

Note 1	For example:	breast, testes,	thyroid.	penis.	prostate.	etc.

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED) Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)/)

Division of Reproductive, Abdominal,

and Radiological Devices

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging Note 5 Power SieScape panoramic imaging Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

510(k) Number (if known):

Device Name:

BE9-4 Biplane Endocavity Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

						M	ode of Opera	ation		
Clinical Application	А	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic									i i	
Fetal		Р	Ρ.						ВМ	Note 3
Abdominal										
Intraoperative Abdominal										
Intraoperative Neurological										
Pediatric								· · · · · · · · · · · · · · · · · · ·		
Small Organ (Note 1)										
Neonatal Cephalic										
Adult Cephalic										
Cardiac										
Transesophageal										
Transrectal		Ρ	Р						ВМ	Note 3
Transvaginal		Р	Р						ВМ	Note 3
Transurethral						.,				7.0.0
Intravascular										
Peripheral vessel										
Laparoscopic								•		
Musculo-skeletal Conventional										
Musculo-skeletal Superficial										
Other (specify)										

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

Note 1	For example: breas	t, testes.	thyraid.	penis.	prostate	etc
11010 1	i oi oxampic. Dica:	1, 103103,	THYIOTO.	DCHIS.	DIOSTATE.	eic.

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging Note 5 Power SieScape panoramic imaging Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number_

510(k) Number (if known):

Device Name:

C6F3 Convex Array Mechanically Driven, 3D Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

	_					М	ode of Oper	ation		
Clinical Application	Α	В	м	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic										
Fetal		Р	P						ВМ	Note 2,3
Abdominal		Р	Р						BM	Note 2,3
Intraoperative Abdominal								<u>-</u>		
Intraoperative Neurological										
Pediatric		Р	Р						ВМ	Note 2,3
Small Organ (Note 1)								· • · · · · · · · · · · · · · · · · · ·		
Neonatal Cephalic		Р	Р						ВМ	Note 2,3
Adult Cephalic										
Cardiac										
Transesophageal										
Transrectal		:								
Transvaginal										
Transurethral										
Intravascular										
Peripheral vessel										
Laparoscopic										
Musculo-skeletal Conventional										
Musculo-skeletal Superficial	:									· · · · · · · · · · · · · · · · · · ·
Other (specify)										

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

Note	1	For	example	: breast,	testes,	thyroid,	penis,	prostate,	etc.

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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off) (Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number _

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging Note 5 Power SieScape panoramic imaging Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

510(k) Number (if known):

Device Name:

EV8F5 Mechanical Sector Endovaginal 3D Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

		•				М	ode of Opera	ation		
Clinical Application	А	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic									i i	
Fetal		Р	Р						ВМ	Note 3
Abdominal										
Intraoperative Abdominal										
Intraoperative Neurological										
Pediatric										
Small Organ (Note 1)										
Neonatal Cephalic		Р	Р						ВМ	Note 3
Adult Cephalic										
Cardiac										
Transesophageal										
Transrectal		ъ	Р	_					ВМ	Note 3
Transvaginal		P	Р						BM	Note 3
Transurethrai										
Intravascular										
Peripheral vessel										
Laparoscopic								·		
Musculo-skeletal Conventional										
Musculo-skeletal Superficial										
Other (specify)										

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

No	te	1 F	or	examp	e:	breast,	testes,	thyroid,	penis,	prostate,	etc.
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Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging Note 5 Power SieScape panoramic imaging Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

510(k) Number (if known):

Device Name:

3.5C40S Convex Array Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

						M	ode of Opera	ation		
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic										
Fetal		Ρ	Р						ВМ	Note 2,3
Abdominal		Р	Р						ВМ	Note 2,3
Intraoperative Abdominal										
Intraoperative Neurological										
Pediatric		Р	Р						ВМ	Note 2,3
Small Organ (Note 1)	i									
Neonatal Cephalic										
Adult Cephalic										-
Cardiac						_			1	
Transesophageal										
Transrectal										
Transvaginal										
Transurethral										
Intravascular			l							
Peripheral vessel		œ.	Ρ						ВМ	Note 2,3
Laparoscopic										
Musculo-skeletal Conventional										
Musculo-skeletal Superficial							,			<u></u>
Other (specify)			<u> </u>						t	

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

No	te	1	For	examp	e:	oreast,	testes,	thyroid,	penis,	prostate,	etc.
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Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging Note 5 Power SieScape panoramic imaging Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging.

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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number _

510(k) Number (if known):

Device Name:

5.0C40S Convex Array Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

						Me	ode of Opera	ation		
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic										
Fetal		Р	Р]		ВМ	Note 2,3
Abdominal		Р	Р	[ВМ	Note 2,3
Intraoperative Abdominal										
Intraoperative Neurological										
Pediatric		Р	P						BM	Note 2,3
Small Organ (Note 1)							,			
Neonatal Cephalic										·
Adult Cephalic										
Cardiac										
Transesophageal										
Transrectal										
Transvaginal					·					
Transurethral										
Intravascular										
Peripheral vessel		Р	Р						BM	Note 2,3
Laparoscopic										
Musculo-skeletal Conventional										
Musculo-skeletal Superficial										
Other (specify)	\Box		l							

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

Note 1	For examp	ile: breast,	testes,	thyroid,	penis,	prostate,	etc.
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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging Note 5 Power SieScape panoramic imaging

Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

510(k) Number (if known):

Device Name:

Endo PII Mechanical Sector Biplane Endo-cavity Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

	Mode of Operation									
Clinical Application	А	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic								· • • • • • • • • • • • • • • • • • • •		
Fetal		Ρ	P						ВМ	Note 2,3
Abdominal										
Intraoperative Abdominal										
Intraoperative Neurological										
Pediatric										
Small Organ (Note 1)										
Neonatal Cephalic										
Adult Cephalic		-				<u>-</u>				
Cardiac										
Transesophageal		·				-				
Transrectal		Р	Р		_				ВМ	Note 2,3
Transvaginal		P	Р		·				ВМ	Note 2,3
Transurethral										
Intravascular										
Peripheral vessel										
Laparoscopic										•
Musculo-skeletal Conventional										
Musculo-skeletal Superficial										····
Other (specify)									 	

N = new indication; P = previously cleared by FDA with K042833 and K946179; E = added under Appendix E

Note 1	For	example:	breast	taetae	thyroid	nanie	proctate	atc
MOTO I	LOI	example.	urcası.	lestes.	HIVIDIO.	oems.	prostate.	eic.

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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number.

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging

Note 5 Power SieScape panoramic imaging Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging

510(k) Number (if known):

Device Name:

Endo VII Mechanical Sector Endovaginal Transducer for use with:

SONOLINE G20™ Diagnostic Ultrasound Systems

Intended Use:

Diagnostic imaging or fluid flow analysis of the human body as follows:

	Mode of Operation									
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (Specify)	Other (Specify)
Ophthalmic										·
Fetal	-	Р	Р						ВМ	Note 2,3
Abdominal										
Intraoperative Abdominal										
Intraoperative Neurological										
Pediatric	_							-	 	
Small Organ (Note 1)										
Neonatal Cephalic		Р	Р						ВМ	Note 2,3
Adult Cephalic										TOTO E,O
Cardiac										
Transesophageal					-					
Transrectal		Р	Р						BM	Note 2,3
Transvaginal		P	Р						ВМ	Note 2,3
Transurethral										
Intravascular										
Peripheral vessel										
Laparoscopic										
Musculo-skeletal Conventional										
Musculo-skeletal Superficial										
Other (specify)										

N = new indication; P = previously cleared by FDA with K042833; E = added under Appendix E

No	te	1	For	examp	e:	breast,	testes,	thyroid	penis,	prostate.	etc.
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Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal and Radiological Devices, 1001

5±O(k) Number _____

Note 2 Ensemble tissue harmonic imaging

Note 3 3D imaging

Note 4 B&W SieScape panoramic imaging Note 5 Power SieScape panoramic imaging

Note 6 For example: abdominal, vascular

Note 7 Contrast agent imaging